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(12) United States Patent  
Hill et al.(10) Patent No.: US 6,436,379 B1  
(45) Date of Patent: \*Aug. 20, 2002(54) EMOLLIENT FOR CUTICLE TREATMENT  
AND DELIVERY SYSTEM THEREFORE5,034,215 A 7/1991 Santa-Coloma Roth ..... 424/61  
RE36,253 E 7/1999 DiMeglio ..... 424/195.1  
5,968,530 A \* 10/1999 Arquette ..... 424/401

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\* cited by examiner

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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This patent is subject to a terminal disclaimer.

## (57) ABSTRACT

A product for treating and conditioning cuticles using a semi-solid emollient and a complimentary delivery system is disclosed. The emollient could be any semi-solid emollient suitable for cuticle treatment, the emollient preferably including naturally derived botanicals that impart a "dry" feel, and a soothing and softening effect on the cuticle area. Isopropyl jojoba (IPJ) and hydrogenated isopropyl jojoba (HIPJ) esters, hydrogenated jojoba alcohol, jojoba esters, hydrogenated jojoba oil, ethyl macadamate and other esters, waxes and oils may be used in the emollient to contribute to the "dry" feel and serve as carriers for active materials used to treat cuticles. The semi-solid emollient is retained in a container, preferably in stick form, and is extendable from and preferably retractable into the container, which can be carried by an individual. The container is designed to enable a user to apply the emollient to a cuticle area without touching the emollient with his/her fingertips, thereby preventing application or migration of the emollient to unselected areas.

(21) Appl. No.: 09/527,935

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## Related U.S. Application Data

(63) Continuation-in-part of application No. 09/010,736, filed on Jan. 22, 1998, now Pat. No. 6,280,746, which is a continuation-in-part of application No. 08/953,132, filed on Oct. 17, 1997, now Pat. No. 5,968,530.

(51) Int. Cl.<sup>7</sup> ..... A61K 6/00; A61K 7/00;  
A61K 7/04(52) U.S. Cl. ..... 424/61; 424/401; 514/873  
(58) Field of Search ..... 424/401, 61; 514/873

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31 Claims, 3 Drawing Sheets

